|    | Туре | ; <del>+</del> | Hi-   | Search Text                         | DBs<br>USPAT;<br>US-PGPUB;                  | Time<br>Stamp<br>2003/04/2 | <br>Comm r Defents nit |
|----|------|----------------|-------|-------------------------------------|---|----------------------------|------------------------|
| N  | BRS  | L2             | 9579  | copper adj ion                      | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/2                  |                        |
| ω  | BRS  | L3             | 0     | dipeptide same<br>complex\$2 same 2 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/2                  |                        |
| 4  | BRS  | L4             | 50701 | copper                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/2                  |                        |
| v  | BRS  | L5             | 19    | dipeptide same<br>complex\$2 same 4 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/2<br>1 14:28       |                        |
| 0  | BRS  | Г6             | 17    | glu-trp                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/2<br>1 14:28       |                        |
| 7  | BRS  | L7             | Ο.    | 6 same complex\$2<br>same 4         | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/2<br>1 14:28       |                        |
| 80 | BRS  | 18             | ,     | 1 same 5                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/2<br>1 14:28       |                        |
| 9  | BRS  | Ь9             | 15    | dipeptide same<br>chelat\$3 same 4  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/2<br>1 14:31       |                        |

| 04/21/2003,                         | pacrick.in.                             |
|-------------------------------------|---|
| 04/21/2003, EAST Version: 1.03.0007 | DERWENT                                 |
|                                     | 1 14:5/                                 |
|                                     | *************************************** |

|                                  | 17 BRS                                      | 16 BRS                                      | 15 BRS                                      | 14 BRS                                      | 13 BRS                                      | 12 BRS                                      | 11 BRS                                      | 10 BRS                                     | Ty                                 |
|----------------------------------|---|---|---|---|---|---|---|--|------------------------------------|
| BRS L18                          | L17   | L16   | L15   | L14   | L13   | L10   | L12   | L11  | Type L #                           |
| ω                                | 4   | 0   | 10  | 16  | 0   | 29  | . 0   | 4  | Hits                               |
| poyet adj<br>patrick.in.         | falardeau adj<br>pierre.in.                 | dimitriadou adj<br>violetta.in.             | lessard adj<br>denis.in.                    | dupont adj eric.in.                         | 10 same 1                                   | 5 or 9                                      | 10 same 11                                  | antitumor same<br>(shark adj<br>cartilage) | Search Text                        |
| USPAT;<br>US-PGPUB;<br>EPO; JPO; | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | USPAT; US-PGPUB; EPO; JPO; DERWENT         | DBs                                |
| 2003/04/2                        | 2003/04/2                                   | 2003/04/2<br>1 14:56                        | 2003/04/2<br>1 14:55                        | 2003/04/2<br>1 14:55                        | 2003/04/2<br>1 14:42                        | 2003/04/2<br>1 14:55                        | 2003/04/2<br>1 14:33                        | 2003/04/2                                  | Time                               |
|                                  |   |   |   |   |   |   |   |  | Comm L ents                        |
| 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0  | Erro<br>r Er<br>Defi ro<br>niti rs |

| USPAT;<br>US-PGPUB; 2003/04/2<br>EPO; JPO; 1 14:58 |
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| DBs  |

## => d his

## (FILE 'HOME' ENTERED AT 15:17:39 ON 21 APR 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT

15:18:00 ON 21 APR 2003

- L1 4690 S ANTI-ANGIOGENIC
- L2 1068654 S COPPER
- L3 560 S L2 (P) DIPEPTIDE (P) (COMPLEX? OR CHELAT?)
- L4 14 S L3 (P) (1:2)
- L5 7 DUPLICATE REMOVE L4 (7 DUPLICATES REMOVED)
- L6 58438 S ANTI-TUMOR OR ANTI-NEOPLASTIC
- L7 655 S SHARK CARTILAGE
- L8 23 S L6 (P) L7
- L9 0 S L3 AND L8

 $<sup>=&</sup>gt; \log y$ 

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FILE 'HOME' ENTERED AT 15:17:39 ON 21 APR 2003
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=> file medline caplus biosis embase scisearch agricola TOTAL COST IN U.S. DOLLARS SINCE FILE ENTRY SESSION 0.21 0.21 FULL ESTIMATED COST FILE 'MEDLINE' ENTERED AT 15:18:00 ON 21 APR 2003 FILE 'CAPLUS' ENTERED AT 15:18:00 ON 21 APR 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'BIOSIS' ENTERED AT 15:18:00 ON 21 APR 2003 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R) FILE 'EMBASE' ENTERED AT 15:18:00 ON 21 APR 2003 COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved. FILE 'SCISEARCH' ENTERED AT 15:18:00 ON 21 APR 2003 COPYRIGHT (C) 2003 Institute for Scientific Information (ISI) (R) FILE 'AGRICOLA' ENTERED AT 15:18:00 ON 21 APR 2003 => s anti-angiogenic 4690 ANTI-ANGIOGENIC => s copper 1068654 COPPER => s 12 (p) dipeptide (p) (complex? or chelat?) 560 L2 (P) DIPEPTIDE (P) (COMPLEX? OR CHELAT?) => s 13 (p) (1:2)14 L3 (P) (1:2) => duplicate remove 14 DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH' KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n PROCESSING COMPLETED FOR L4 7 DUPLICATE REMOVE L4 (7 DUPLICATES REMOVED) => d 15 1-7 ibib abs ANSWER 1 OF 7 DUPLICATE 1 MEDLINE ACCESSION NUMBER: 2003108968 IN-PROCESS 22464596 PubMed ID: 12576272 DOCUMENT NUMBER: Dipeptides containing the alpha-aminoisobutyric residue TITLE: (Aib) as ligands: preparation, spectroscopic studies and crystal structures of copper(II) complexes with H-Aib-X-OH (X=Gly, L-Leu, L-Phe). **AUTHOR:** Tiliakos Manolis; Katsoulakou Eugenia; Nastopoulos Vassilios; Terzis Aris; Raptopoulou Catherine; Cordopatis Paul; Manessi-Zoupa Evy CORPORATE SOURCE: Department of Pharmacy, University of Patras, GR 265 04 Patras, Greece. JOURNAL OF INORGANIC BIOCHEMISTRY, (2003 Jan 15) 93 (3-4) SOURCE: Journal code: 7905788. ISSN: 0162-0134. PUB. COUNTRY: United States DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) LANGUAGE: FILE SEGMENT: IN-PROCESS; NONINDEXED; Priority Journals ENTRY DATE: Entered STN: 20030308 Last Updated on STN: 20030308 Synthetic procedures are described that allow access to new \*\*\*copper\*\*\* \*\*\*complexes\*\*\* with \*\*\*dipeptides\*\*\* containing the

alpha-aminoisobutyric reside (Aib) as ligands. The solid \*\*\*complexes\*\*\* [Cu(H(-!(A))](n).nH(2)O(1) (L(A)H=H-A) [Cu(H(-1)L(B))(MeOH)](n).nMeOH(2)(L(B)H=H-Aib-L-Leu-OH) and [Cu(H(-1)L(C))](n) (3) (L(C)H=H-Aib-L-Phe-OH) have been isolated and characterized by single-crystal X-ray crystallography, solid-state IR spectra and UV-Vis spectroscopy in solution (H(-1)L(2-) is the dianionic form of the corresponding \*\*\*dipeptide\*\*\* ). \*\*\*Complexes\*\*\* 3 are three-dimensional coordination polymers with similar structures. \*\*\*dipeptide\*\*\* behaves as a N(amino), The doubly deprotonated N(peptide), O(carboxylate), O'(carboxylate), O(peptide) mu(3) ligand and binds to one Cu(II) atom at its amino and peptide nitrogens and at one carboxylate oxygen, to a second metal at the other carboxylate oxygen, while a third Cu(II) atom is attached to the peptide oxygen. The geometry \*\*\*copper\*\*\* (II) is distorted square pyramidal with the peptide oxygen at the apex of the pyramid. The structure of 2 consists of zigzag polymeric chains, where the doubly deprotonated \*\*\*dipeptide\*\*\* behaves as a N(amino), N(peptide), O(carboxylate), O'(carboxylate) mu(2) ligand. The geometry at \*\*\*copper\*\*\* (II) is square pyramidal with the methanol oxygen at the apex. The IR data are discussed in terms of the nature of bonding and known structures. The UV-Vis spectra show that the solid-state structures of \*\*\*1\*\*\* , \*\*\*2\*\*\* and 3 do not persist in H(2)0.

ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS L5ACCESSION NUMBER: 1996:131866 CAPLUS

DOCUMENT NUMBER: 124:213155

Ternary complexes of copper(II) involving dipeptides TITLE:

and aromatic amines: Effect of .pi.-acidity of aromatic amines on the deprotonation of the peptide

group in the ternary complex

AUTHOR (S): Chakraborty, D.; Bhattacharya, P. K.

Faculty Science, M. S. University Baroda, Baroda, 390 CORPORATE SOURCE:

002, India

Indian Journal of Chemistry, Section A: Inorganic, SOURCE:

Bio-inorganic, Physical, Theoretical & Analytical

Chemistry (1996), 35A(1), 37-40 CODEN: ICACEC; ISSN: 0376-4710

Publications & Information Directorate, CSIR PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

Equil. consts. were measured potentiometrically in 50% aq. dioxane at 30.degree. and ionic strength 0.2 (NaClO4) for Cu(II)-arom. amine (A) -dipeptide (L) mixed-ligand complexes. The arom. amines (A) were 5-nitro-1,10-phenanthroline (Nphen), 2,2'-pyridylbenzimidazoline (pybz), 1,10-phenanthroline (phen), and 2,2'-pyridylimidazoline (pyz). The dipeptides were glycylglycine (gg), glycyl-L-alanine (ga), and glycyl-L-leucine (gl). The formation of 2 types of ternary complexes was detected at different pH. The formation consts. are compared with those for Cu-ethylenediamine (en)-dipeptide systems. The effect of increasing .pi.-acid character of the amines (A) on the dipeptide (L) deprotonation in the ternary complex (CuAL-H) is discussed. Electrochem. studies of the binary complex Cu-en and of the ternary complex Cu-en-gg were carried out in aq. medium. The formation of 2 different ternary species at different

ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1995:296345 CAPLUS

pH with different redn. potentials is obsd.

DOCUMENT NUMBER: 123:46644

TITLE: Ternary metal(II) complexes with tyrosine-containing dipeptides. Structures of copper(II) and palladium(II) complexes involving L-tyrosylglycine and stabilization of copper(II) complexes due to intramolecular aromatic

ring stacking. [Erratum to document cited in

CA119:285034]

AUTHOR (S): Sugimori, Tamotsu; Shibakawa, Kimio; Masuda, Hideki;

Odani, Akira; Yamauchi, Osamu

Fac. Sci., Nagoya Univ., Nagoya, 464-01, Japan CORPORATE SOURCE:

Inorganic Chemistry (1994), 33(17), 3848

CODEN: INOCAJ; ISSN: 0020-1669

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

SOURCE:

AB The errors were not reflect in the abstr. or the index ent s

L5 ANSWER 4 OF 7 MEDLINE DUPLICATE 2

ACCESSION NUMBER: 93322395 MEDLINE

DOCUMENT NUMBER: 93322395 PubMed ID: 8331135

TITLE: Electrochemical detection of dipeptides with selectivity

against amino acids.

AUTHOR: Weber S G; Tsai H; Sandberg M

CORPORATE SOURCE: Department of Chemistry, University of Pittsburgh, PA

15260.

CONTRACT NUMBER: GM-44842 (NIGMS)

SOURCE: JOURNAL OF CHR

JOURNAL OF CHROMATOGRAPHY, (1993 May 21) 638 (1) 1-8.

Journal code: 0427043. ISSN: 0021-9673.

PUB. COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199308

ENTRY DATE: Entered STN: 19930826

Last Updated on STN: 19970203 Entered Medline: 19930817

Electrolysis of a basic mobile phase containing biuret reagent [Cu(II) and AB a tartrate salt] at high (> \*\*\*1\*\*\* . \*\*\*2\*\*\* V vs. Ag/AgCl) potentials modifies the glassy carbon electrode. This modified anode \*\*\*dipeptides\*\*\* , yielding signals expected for a oxidizes one-electron transfer, even at low (down to 0.7 V vs. Ag/AgCl) potentials and in the absence of intentionally added \*\*\*copper\*\*\* (II) ion in the reagent or mobile phase. The same modification demonstrates a selectivity to alpha- \*\*\*dipeptides\*\*\* over amino acids that is unprecedented. The product of the anodic reaction is reduced at a downstream cathode at low positive potentials. Sensitivities for several amino acids and \*\*\*dipeptides\*\*\* are reported under several conditions. Neither the anodic nor the cathodic signals for the buiret \*\*\*complex\*\*\* tripeptide Ala-Ala are significantly altered because of the modification.

5 ANSWER 5 OF 7 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1990:66327 BIOSIS

DOCUMENT NUMBER: BA89:34153

TITLE: ESR STUDY OF COPPER-II COMPLEXES OF X GLYCINE AND GLYCYL-X

TYPE DIPEPTIDES AND RELATED TRIPEPTIDES VARIATION OF COORDINATION MODES WITH LIGAND EXCESS AND PH IN FLUID AND

FROZEN AQUEOUS SOLUTIONS.

AUTHOR(S): SZABO-PLANKA T; PEINTLER G; ROCKENBAUER A; GYOR M;

VARGA-FABIAN M; INSTITORISZ L; BALAZSPIRI L

CORPORATE SOURCE: INST. GENERAL PHYSICAL CHEM., ATTILA JOZSEF UNIV., P.O. BOX

105, H-6701 SZEGED, HUNGARY.

SOURCE: J CHEM SOC DALTON TRANS, (1989) 0 (10), 1925-1932.

CODEN: JCDTBI. ISSN: 0300-9246.

FILE SEGMENT: BA; OLD LANGUAGE: English

\*\*\*complexes\*\*\* Co-ordination modes for the various \*\*\*copper\*\*\* (II) of glycine(Gly)-containing di- and tripeptides (HL) with non-co-ordinating side-chains have been investigated. The e.s.r. spectra of predominant \*\*\*2\*\*\* :1, and 50:1 ligand:metal species at 1: \*\*\*1\*\*\* , concentration ratios in the region pH .apprxeq. 6-13 have been recorded in fluid and frozen aqueous solutions, and evaluated by computer simulation. The energies of the d-d electronic transitions have been determined by Gaussian analysis of the visible absorption spectra. Molecular-orbital coefficients characteristic of metal-ligand bonds for the various 1:1 and \*\*\*1\*\*\* : \*\*\*2\*\*\* \*\*\*complexes\*\*\* have been calculated assuming effective D4h symmetry. At ligand excess in alkaline solution, the temperature strongly affects the chemical equilibria: low temperature promotes the formation of \*\*\*1\*\*\* : \*\*\*2\*\*\* \*\*\*complexes\*\*\* [Cu(LH-1)L] - at pH .apprxeq. 9, and [Cyu(LH- \*\*\*1\*\*\* ) \*\*\*2\*\*\* ]2- at \*\*\*dipeptides\*\*\* . In the pH .apprxeq. 13 in the case of X-Gly type predominant isomers of these \*\*\*complexes\*\*\* one of the

\*\*\*dipeptide\*\*\* molecules is co-ordinated equatorially through its amino nitrogen, deprotonated peptide nitrogen, and carboxylate oxygen atoms. The amino group of the other \*\*\*dipeptide\*\*\* occupies an axial position, while the fourth equatorial donor atom is either the peptide oxygen (pH .apprxeq. 9) or the deprotonated peptide nitrogen (pH .apprxeq. 13) of the

second ligand. In the latter ase, axial co-ordination of the econd carboxylate group is also lively. Competition can be observed etween the the .sigma. and .pi. bonds in the equatorial plane on the one hand, and between the .sigma. bonds of different symmetries on the other hand. The influence of the co-ordination modes, the type of ligand, and the temperature on the covalent character of the metal-ligand bonds is discussed.

ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1943:26813 CAPLUS DOCUMENT NUMBER: 37:26813

ORIGINAL REFERENCE NO.: 37:4303h-i,4304a

Spectrography of the biuret complex as a method of TITLE:

investigating protein. IV. Absorption spectra of

copper complexes of some peptides and their

derivatives

Gavrilov, N. I.; Plekhan, M. I.; Poddubnaya, N. A. AUTHOR (S): Bull. acad. sci. U. R. S. S., Classe sci. chim. (1941) SOURCE:

From: Chem. Zentr. 1942, II, 385-6.

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

can be formed from peptides: blue (absorption \*\*\*complexes\*\*\* max. 630-693 m.mu.), violet (582 m.mu.) and red (505-530 m.mu.). These correspond to the types of di-, tri- and tetrapeptide (biuret). The \*\*\*complexes\*\*\* further show different absorption intensities in the visible spectrum, which increases proportionally from di- to tetrapeptide. The formation of \*\*\*complexes\*\*\* stops in the presence of a peptide surplus. Titration with \*\*\*copper\*\*\* acetate permits observation of the formation of \*\*\*complexes\*\*\* of tri-, tetra- and pentapeptide with \*\*\*copper\*\*\* : peptide ratio of 1:1. For biuret the ratio is \*\*\*1\*\*\* : \*\*\*2\*\*\* , for \*\*\*dipeptides\*\*\* according to titration 1:1.7 and according to intensity 1:1.4. Acetylated \*\*\*dipeptide\*\*\* \*\*\*complexes\*\*\* with a Cu:peptide ratio of 1:8 and 1:11. can form Substitution of H by NH2 in the acetyl group of the peptide does not change the position of the max. but changes the height of the absorption intensity.

ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1916:3925 CAPLUS 10:3925 DOCUMENT NUMBER:

ORIGINAL REFERENCE NO.: 10:765c-i,766a

Spectrophotometric study of copper complexes and the TITLE:

biuret reaction

Kober, Philip A.; Haw, Arthur B. AUTHOR (S): SOURCE: J. Am. Chem. Soc. (1916), 38, 457-72

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

cf. C. A. 7, 3976; 9, 3252. It has been found by K. and his colleagues that the Cu \*\*\*complexes\*\*\* of NH2 derivs. and other similar substances can be divided into 3 classes: (1) blue, (2) purple or "semi-biuret," and (3) red or "biuret;" in ( \*\*\*1\*\*\* ) \*\*\*2\*\*\*
groups (amino, imino, imide or amide) are so placed that by forming "stable" rings they can combine with the Cu; in (2) there are 3 and in (3) 4 such groups. As the coordination no. of Cu is 4, in (2) an aquo or HO group is probably attached to the Cu besides the .3 N groups, and in (1) probably 2 HO groups are attached to the Cu. To establish the theory, it must be shown that the absorption spectra agree with the macroscopical observations and that it is really the N groups which produce the characteristic colors. The present paper deals largely with the 1st line of proof. In the ultraviolet the absorption is general and variations in \*\*\*complexes\*\*\* cannot be followed by quant. the constitution of the spectroscopy. In the visible spectrum the absorption curves were quant. detd. by means of a sector photometer and a high dispersion spectroscope on the basis of Talbot's law of rotating sectors. The results are probably accurate only to within 2%. The Cu \*\*\*complexes\*\*\* acids and 4 \*\*\*dipeptides\*\*\* in neutral soln., of 5 tripeptides and 2 tetrapeptides in neutral, faintly alk. and strongly alk. soln., and of egg albumen, edestin, casein and biuret in strongly alk. soln. were studied and the results are reported in curves. The amt. and nature of the absorption of a given \*\*\*complex\*\*\* depends somewhat on the concn. of

HO ions; in the tetrapeptide the red color is only faintly eloped in the weaker alkali and more songly in the more concd. alkali hile the reverse is true for the tripeptides. There are 3 types of absorption curves: beginning at about 480, 459 and 443 .mu..mu., resp., with max. at 630, 540 and 505 .mu..mu.. Diglycylglycine in faintly alk. soln. gives the semi-biuret color as strongly as the other tripeptides, Fischer's statement that it is an exception probably being due to the fact that he used strong alkali in making the biuret test. The protein
\*\*\*complexes\*\*\* in strongly alkaline soln. give practically the same curves as tripeptides in faintly alk. soln. K. and H. conclude that the formation with Cu "biuret reaction" is no other than a \*\*\*complex\*\*\* and, as far as color formation is concerned, no decompn. of the protein is involved, and that the protein configurations are such that they permit only 3 N groups to form rings with Cu; therefore the protein mol. must be aggregated and is not in the form of long free chains or branches of peptides or conjugated NH2 acids. Oxy or HO \*\*\*complexes\*\*\* of Cu, no matter what their configuration, are all blue or green, never red, and are characterized by their relative instability in alk. solns., and, on the other hand, that red colors are due to N groups is indicated by the fact that substances possessing only N and no O give a red biuret reaction (diguanidine \*\*\*copper\*\*\* ); \*\*\*complexes\*\*\* containing a deficiency of O groups but sufficient N groups give a red biuret reaction; there is a great parallelism between the number of N groups available for combination with the Cu and the amt. of the red color. => s anti-tumor or anti-neoplastic 58438 ANTI-TUMOR OR ANTI-NEOPLASTIC => s shark cartilage 655 SHARK CARTILAGE => s 16 (p) 17 23 L6 (P) L7 => d his (FILE 'HOME' ENTERED AT 15:17:39 ON 21 APR 2003) FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 15:18:00 ON 21 APR 2003 4690 S ANTI-ANGIOGENIC 1068654 S COPPER 560 S L2 (P) DIPEPTIDE (P) (COMPLEX? OR CHELAT?) 14 S L3 (P) (1:2) 7 DUPLICATE REMOVE L4 (7 DUPLICATES REMOVED) 58438 S ANTI-TUMOR OR ANTI-NEOPLASTIC 655 S SHARK CARTILAGE 23 S L6 (P) L7

L2Ь3 L4L5 L6 Ь7 L8 => s 13 and 18 0 L3 AND L8 L9

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FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 15:18:00 ON 21 APR 2003

4690 S ANTI-ANGIOGENIC 1068654 S COPPER

560 S L2 (P) DIPEPTIDE (P) (COMPLEX? OR CHELAT?)

14 S L3 (P) (1:2)

7 DUPLICATE REMOVE L4 (7 DUPLICATES REMOVED)

58438 S ANTI-TUMOR OR ANTI-NEOPLASTIC

655 S SHARK CARTILAGE

23 S L6 (P) L7

0 S L3 AND L8

=> log y COST IN U.S. DOLLARS

L6

L7

L1

=> d his

L1

 $L_2$ 

L3

L4

L5

L6

L7

L8

FULL ESTIMATED COST

43.88

9

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